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Literature Searching in PubMed: Advanced Course

Dr. Thomas Fürst University Medical Library AS 2023

Course attendance certificate for medical students

- Download course attendance certificate on medbas
- Fill in yourself and send to Faculty (no input from us needed)
- Now in Zoom:
 - Logged in as guest? Please log in again with your (stud.)unibas.ch account and correct full name
 - We can only download list of participants with Unibas account
 - Checks/Control based on this list of participants



Overview

- Short repetition of "Basics in Literature searching"
- PubMed Live (various slides on theory)
 - What do I find where?
 - Understanding free-text searching
 - Search for fixed word sequences (phrasing)
 - Search in specific fields only (search fields with [...])
 - Root term search (truncation)
 - Using MeSH database (Exercise 1)
 - Reduce / expand hits (precision vs. sensitivity)
 - Exercise 2
 - Take home messages

Aims: Where do you want to go? What will you learn today?



	Daily hospital routine	Literature search, master thesis	Systematic Review
Require ments	Fast, find specific answers	extensive, well built/solid background research	Reproducible, systematic and sensitive search
Ex. sources	UpToDatePubMed ClinicalQueries	Google ScholarPubMed/EmbaseWeb of Science/Scopus	 PubMed/Embase/Cochrane Library Web of Science/Scopus Grey Literature Complementary search methods
Ex. search input PubMed	Heart failure Spironolactone Mortality	Heart failure AND Spironolactone AND (Mortality OR Death) VS	(Heart failure[tiab] OR Cardiac Failure[tiab] OR Myocardial Failure[tiab] OR Heart Decompensation[tiab] OR "Heart Failure"[Mesh]) AND (Spironolactone[tiab] OR Aldactone[tiab] OR "Spironolactone"[Mesh]) AND (death*[tiab])
Ва	sic course topic	(Heart failure OR Cardiac Failure OR Heart Decompensation OR "Heart Failure"[Mesh]) AND (Spironolactone OR Aldactone OR "Spironolactone"[Mesh]) AND (mortality OR death OR died OR "Mortality"[Mesh])	"Spironolactone" [Mesh]) AND (death*[field] Read*[tiab] OR diefficient on specialists dying Let information specialists dying Let information specialists dying Let information specialists as united advise you controlled trial advise you controlled trial [pt] OR randomized[tiab] OR placebo[tiab] OR "clinical trials as topic" [MeSH Terms:noexp] OR randomly[tiab] OR trial[ti] NOT ("animals" [MeSH Terms])))

Formulating the question precisely with PICO(S)

Population: Adults with meniscus tear

Intervention: physiotherapy

Control: Arthroscopic partial meniscus resection

Outcome: Pain ↓, QoL ↑

Do not unconditionally follow these frameworks, but use your own experience and brain!



PICO question: In adult patients with a meniscus tear, is physiotherapy or arthroscopic partial meniscus resection better to reduce pain and increase quality of life?

- ➤ In addition to PICO there are other systems depending on the context/setting, e.g. PECO, SPIDER, SPICE, CLIP, ECLIPSE, etc.
 - → http://dx.doi.org/10.1136/bmjgh-2018-001107

Example PICO(S) as basis for a search



Comparison of the effects of treating depression with St. John's wort or serotonin reuptake inhibitors on symptom severity – Search for RCTs

Search concept	Possible search terms (English)
1) P opulation	
2) Intervention	
3) Control	
4) Outcome	
5) S tudy Design	

Example PICO(S) as basis for a search



Comparison of the effects of treating depression with St. John's wort or serotonin reuptake inhibitors on symptom severity – Search for RCTs

Search concept	Possible search terms (English)			
1) P opulation	depression	depressive disorder	melancholia	
2) Intervention	hypericum	St. John's wort	•••	
3) Control	serotonin uptake inhibitors	selective serotonin re- uptake inhibitors	SSRIs	
4) Outcome	(Intentionally left out for now in the search - reporting bias in abstracts!)			
5) Study Design	RCTs			

Boolean operators

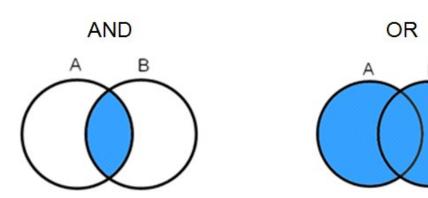


Connecting two terms with ...

AND = both search terms occur

OR = at least one of the two search terms occurs

NOT = second term must not be present



NOT

Attention: 'NOT' usually leads to unwanted exclusions. Best to contact an information specialist

Boolean operators and brackets: Combining the PICO aspects

P AND I AND C AND O

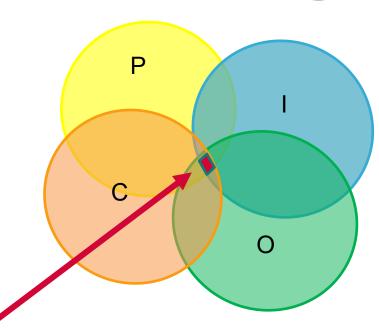
or with synonyms:

(Population 1 OR Population 2 OR ...) AND

(Intervention 1 OR Intervention 2 OR ...) AND

(Control 1 OR Control 2 OR ...) AND

(Outcome 1 OR Outcome 2 OR ...)



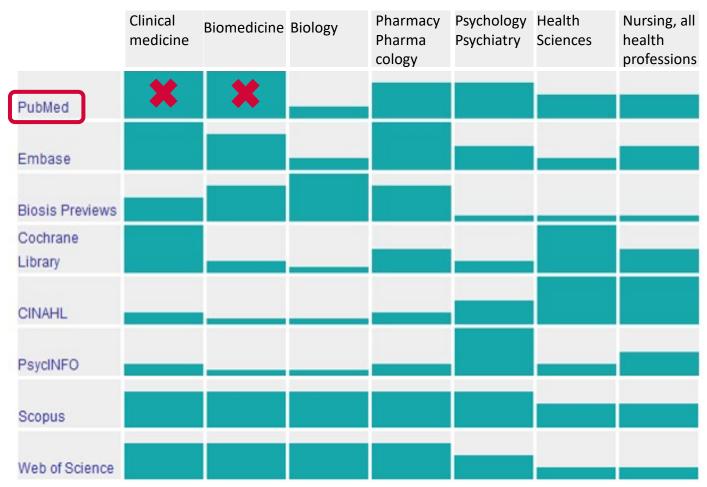
Intersection = final search results

Note: Not all aspects of the PICO question need to be included in a search.

- → initially only search for a few and clearly describable aspects (e.g. drugs)
- → outcomes often not mentioned in the abstract therefore omit them if possible

Resources: electronic databases





Adapted, table by Martina Gosteli

PubMed



- Public access to Medline database
- Most comprehensive medical search interface
- Fundamental redesign in 2020 (New PubMed)
- Publisher: US National Library of Medicine (NLM)
- Daily updates
- Annually ~1 Mio new citations
- Search in full text or direct access of full text not possible (abstracts freely accessible)



PubMed: Useful Links



PubMed access via Uni Basel

https://pubmed.ncbi.nlm.nih.gov/?otool=unibaslib

PubMed® Online Training:

https://learn.nlm.nih.gov/rest/training-packets/T0042010P.html

PubMed User Guide

https://pubmed.ncbi.nlm.nih.gov/help/

Training courses at the University Medical Library

https://ub.unibas.ch/en/university-medical-library/#c10080

PubMed Live! What do I find where?



Live demonstration in the course

Documented by screenshots in the handout (appendix)

Depression / Hypericum / Serotonin uptake inhibitors https://pubmed.ncbi.nlm.nih.gov/?otool=unibaslib

3 things that turn off automatic term mapping (ATM):



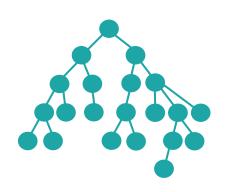
- 1. Phrasing
- 2. Search in specific fields only (field search)
- 3. Root term search (truncation)

Disadvantage if ATM is switched off:

MeSH terms are no longer searched for automatically!

MeSH Terms (Medical Subject Headings)





MeSH Terms (thesaurus = synonym dictionary)

- = Controlled vocabulary of biomedical terms → gives uniformity and consistency to the indexing
- Collection of hierarchically organized, standardized biomedical terms that describe the subject content of articles
- In Medline database, new articles are manually indexed with MeSH terms by experts
- With MeSH Terms you can find matching ("specific") articles, no matter which terms are used by the authors of the articles in title and abstract
- Example:

"Depression" [Mesh] may also find articles in which the abstract only says "melancholia".

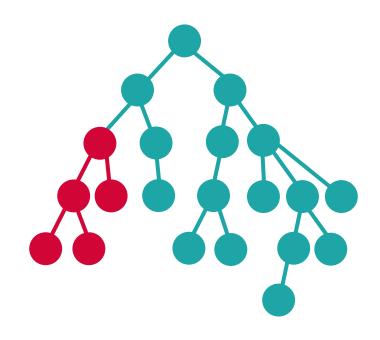
MeSH Search: Possibilities to narrow the scope

Major Topic

Subheadings

Not «explode»

Thesaurus «Tree»



MeSH Search: Possibilities to narrow the scope

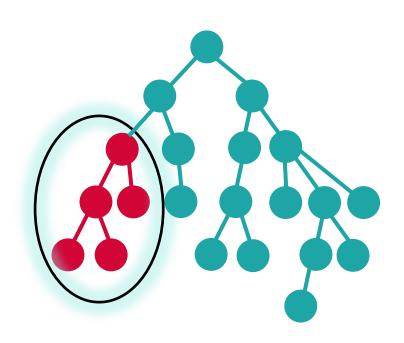
Major Topic

 Limitation to articles in which the MeSH term was indexed as the major topic.

In PubMed:

Restrict to MeSH Major Topic.

Thesaurus «Tree»



MeSH Search: Possibilities to narrow the scope



Subheadings

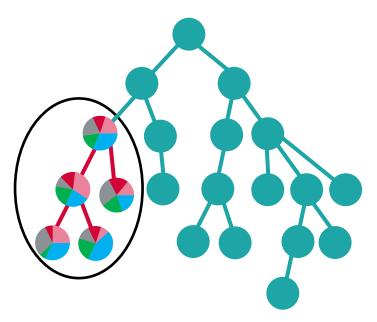
 Limitation to articles for which the subject heading has been further restricted thematically.

In PubMed:

- ☐ diagnostic imaging
- \square diet therapy
- ☑ drug therapy
- □ economics

https://www.nlm.nih.gov/mesh/qualifiers_scopenotes.html

Thesaurus «Tree»



Heading/Subheading1
Heading/Subheading3
Heading/Subheading4
Heading/Subheading4
Heading/Subheading5

MeSH Search: Possibilities to narrow the scope



Not «explode»

 Limitation to articles indexed with exactly this subject heading (=MeSH-Term).

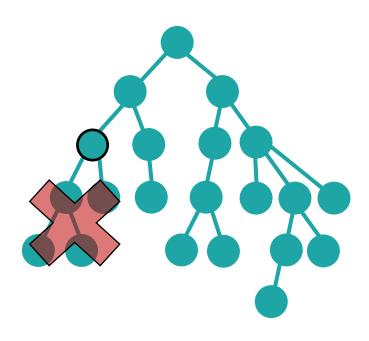
Infections

Vector Borne Diseases

Malaria



Thesaurus «Tree»



☑ Do not include MeSH terms found below this term in the MeSH hierarchy.

Exercise 1





- Open PubMed https://pubmed.ncbi.nlm.nih.gov/?otool=unibaslib
- Go to the MeSH Database (link on the lower right).



Perform the following searches in the PubMed Search Builder and note the correct number of hits

- hypericum[mesh]
- 2. Same search as 1st, but limit to articles where this MeSH term describes the *major topic hypericum[majr]*
- 3. Same search as 1st, but now limit with the subheading *adverse effects hypericum/adverse effects[mesh]*
- 4. Same search as 2nd, but limited by the subheading *adverse effects hypericum/adverse effects[majr]*

Bonus task:

Link the 1st MeSH search with at least two text words of your choice

MeSH Search: Advantages and disadvantages





- Thematically matching articles are found, regardless of which terms or spellings the author of the article used
- Indexing by qualified personnel
- Useful tricks to narrow the scope
 - **→** Major Topic
 - → Subheadings
 - → «do not explode»
- Due to the hierarchical structure,
 broader and narrower terms are easy to find

Disadvantages

- Completely new articles have no subject headings yet, sometimes not until after 3-6 months
- New substances or new medical terms have not yet been indexed
- Non-indexed articles
- Although professionals have indexed: MeSH term allocation not always uniform

MeSH Search: Advantages and disadvantages





S



- Thematically matching articles are found. regardless of which terms or
 - Completely new articles have no subject headings vet, sometimes
 - For a sensitive search combine MeSH search with text word search!

cal ced

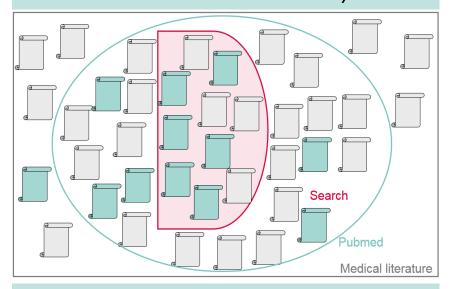


Due to the hierarchical structure,
 broader and narrower terms are easy to find

Precision vs. sensitivity

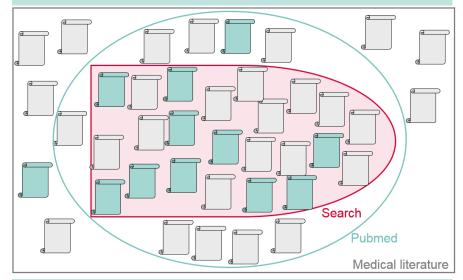


Precision: specific, narrow; few hits (only a few of the relevant hits found but little noise)



e.g. for daily hospital routine, master thesis?

Sensitivity: complete, broad; many hits (almost all of the relevant hits found but among lots of noise)



e.g. for Systematic Reviews, Health Technology Assessments

→ Try different strategies and observe how this changes the results

Precision vs. sensitivity



26



vs. Sensitivity (more results)

Precise terms (e.g. diabetes mellitus type 2)	General terms (e.g. Diabetes)
Targeted, no (or few) synonyms and word variations per search block	More synonyms and word variations per search block
Set filters (e.g. publication type, year)	Do not set filters (e.g. publication type, year)
Combine more PECO aspects with AND, e.g. P AND I AND C AND O	Combine fewer PECO aspects with AND, e.g. P AND I P AND I AND C I AND C

Basic in literature searching: Thomas Fürst

University Medical Library Basel

Precision vs. sensitivity





vs. Sensitivity (more results)

More restrictive field search, e.g. textwords only in "Title/Abstract"

Less restrictive field search, e.g. completely free textword search (allowing also for ATM) or textwords in "All fields"

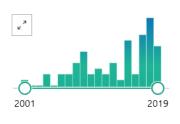
Restrict MeSH by using

- MeSH Subheadings
- MeSH Major Topic
- MeSH No explode

Do not restrict MeSH

Filter results: integrated PubMed filters





TEXT AVAILABILITY

RESULTS BY YEAR

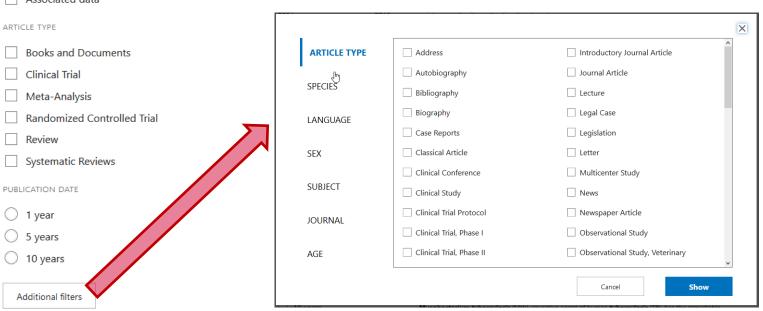
- ___ Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

Associated data

Mostly MeSH-based

- → finds only indexed articles
- → using these built-in filters can lead to unwanted exclusions of relevant articles!
- → not suited for systematic review searches



Filter results: Professional search filters



- Professional search filter for RCTs (with text words and MeSH terms):
 Lefebvre et al., Cochrane Handbook for Systematic Reviews of
 Interventions. Version 6 (updated 2019):
 https://work.cochrane.org/pubmed
- Similar professional search filters (e.g. for "Systematic Reviews"): https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/home



Find more synonyms and word variations and further articles: Example



Combined MeSH and text word search (55 hits, 19 with RCT filter*; 07. Nov. 2023):

(depression[mesh] OR depression[tiab])

AND (hypericum[mesh] OR hypericum[tiab] OR st johns wort[tiab])

AND (selective serotonin reuptake inhibitors[mesh] OR serotonin uptake inhibitors[tiab])

New search with more hits (116 hits, 46 with RCT filter*; 07. Nov. 2023):

(depression[mesh] OR depress*[tiab] OR melanchol*[tiab])

AND (hypericum[mesh] OR hypericum*[tiab] OR st johns wort[tiab] OR st. john's Wort[tiab] OR st. Johnswort[tiab] OR st john wort[tiab] OR saint johns wort[tiab])

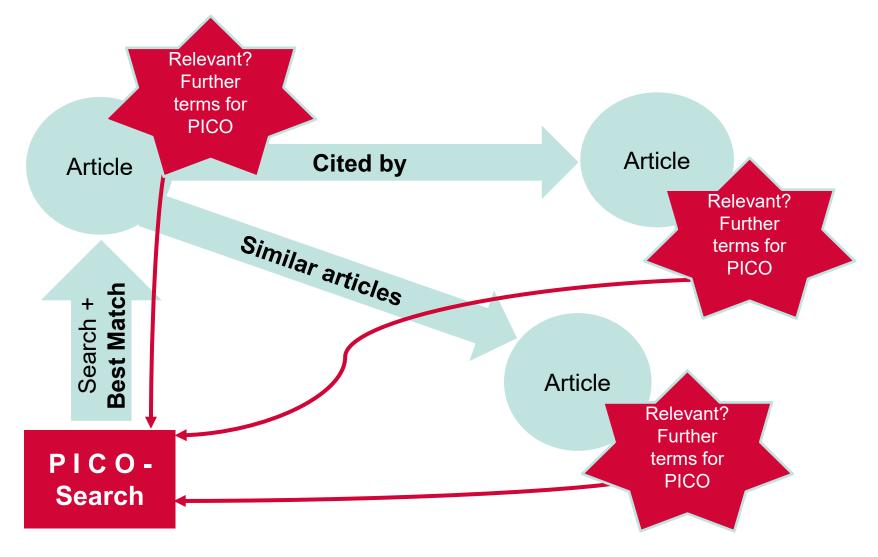
AND (selective serotonin reuptake inhibitors[mesh] OR serotonin uptake inhibitor*[tiab] OR serotonin reuptake inhibitor*[tiab] OR 5-hydroxytryptamine uptake inhibitor*[tiab] OR 5-hydroxytryptamine reuptake inhibitor*[tiab] OR 5-HT uptake inhibitor*[tiab] OR 5-HT reuptake inhibitor*[tiab])

*RCT Filter:

AND (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR clinical trials as topic[mesh:noexp] OR randomly[tiab] OR trial[ti] NOT (animals[mesh] NOT humans[mesh]))

How to find more synonyms and word variations and further articles







Question:

Does the additional intake of spironolactone reduce mortality in patients with heart failure?

Task: Create a suitable search.

- a) Identify the PICO aspects of the question and consider what you are looking for
- b) Find suitable MeSH terms in the MeSH database
- c) Find suitable text words (note synonyms and word variants)
- d) Combine the MeSH terms and text words with OR and then the partial searches of the different PICO aspects with AND

e) Bonus task: Filter your results from d) with the RCT filter from Cochrane (https://work.cochrane.org/pubmed)

Take Home Messages



- Free-text searching is completely sufficient for simple search queries
- For more complex searches, a combination of MeSH terms and text words is recommended
- There are many ways to reach your goal:
 Test different search strategies and check which one makes the most sense for your topic and situation



Thank you for your attention

Further information:

https://ub.unibas.ch/en/locations/university-medicallibrary/support-for-literature-searching/

Kontakt:

thomas.fuerst@unibas.ch

For additional courses see https://ub.unibas.ch/en/locations/university-medical-library/

Upcoming courses

08 NOV 2023 16:00 - 18:00 / SCHULUNG, ONLINE

Literature Searching with PubMed - Advanced

This course builds on the course "Basics in Literature Search with PubMed and Other Resources". It will deepen and complement your knowledge on the important search functions needed for a specific and comprehensive medical literature...

09 NOV 2023 14:00 - 16:00 / SCHULUNG, MEDIZIN

Grundlagen Literaturrecherche: PubMed & andere Quellen

Vermittlung von Grundlagenkenntnissen für die Literatursuche in medizinischen Datenbanken mit dem Fokus auf PubMed.

16 NOV 2023 16:00 - 17:30 / SCHULUNG, FORSCHUNG & LEHRE, ONLINE

Wie nutze ich Turnitin für die Plagiatserkennung?

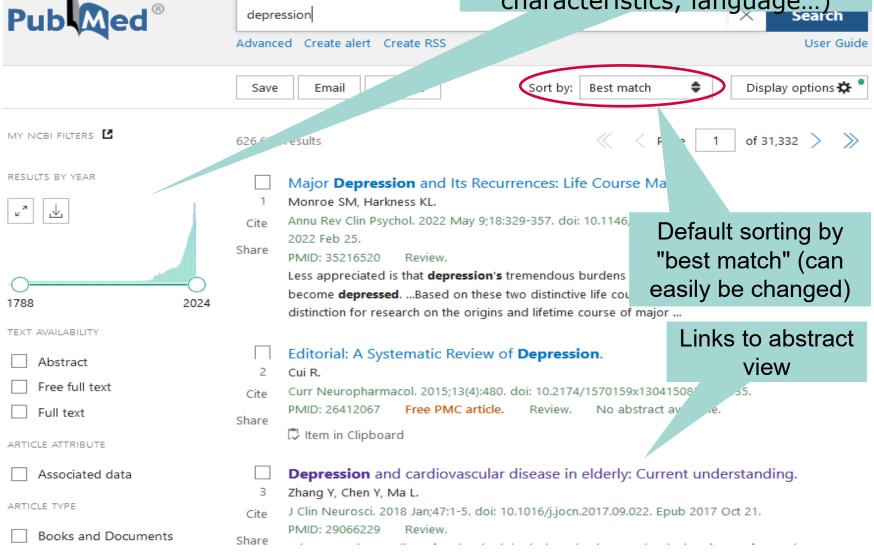
ALL COURSES UBM

PubMed: What do I find where?



Presentation of the results

Filters to filter the retrieved hits (e.g. by year of publication, article type, study population characteristics, language...)



Abstract view

> J Clin Neurosci. 2018 Jan:47:1-5. doi: 10.1016/j.jocn.2017.09.022. Epub 2017 Oct 21.

Depression and cardiovascular disease in elderly: Current understanding

Yaxin Zhang 1, Yujing Chen 2, Lina Ma 3

Affiliations + expand

PMID: 29066229 DOI: 10.1016/j.jocn.2017.09.022

I inks to full text

Share options

FULL TEXT LINKS

Get full text

ACTIONS

Cite

☐ Collections

PREV RESULT 2 of 626,630

Abstract

Geriatric depression is a major public health problem and has an especially large effect on health when comorbid with a chronic medical condition. Hypertension, coronary heart disease, and diabetes are accompanied by a high incidence of depression and can affect the treatment and

following review is on current understanding of geriatric depression and cardiovascular disease.

Direct link to the previous (or next) abstract

sion is a highly prevalent risk factor for incident of and is associated with tality of cardiovascular disease. In addition to the proactive and effective diseases, efforts should also be made to improve patients' psychological and rent evidence on antidepressive therapy in patients with coronary diseases is iderstanding of pathophysiological mechanisms underpinning depression and ase as well as the complex biological crosstalk of cardiovascular disease epression is particularly important for future therapeutic strategies. The

Keywords: Cardiovascular disease; Depression; Elderly.

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PubMed Disclaimer

Similar articles

[Cardiovascular disorders and depression: a review of epi data].

Péter L, Döme P, Rihmer Z, Kovács G, Faludi G.

Neuropsychopharmacol Hung, 2008 May; 10(2):81-90.

PMID: 18959139 Review. Hungarian. Links to all fields in the view (alternative to simply scrolling down)

SHARE



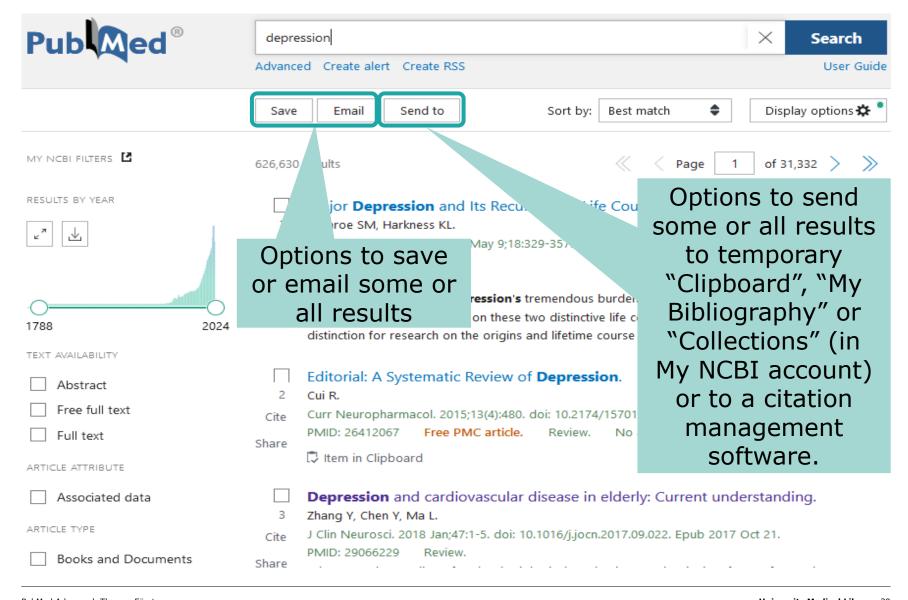




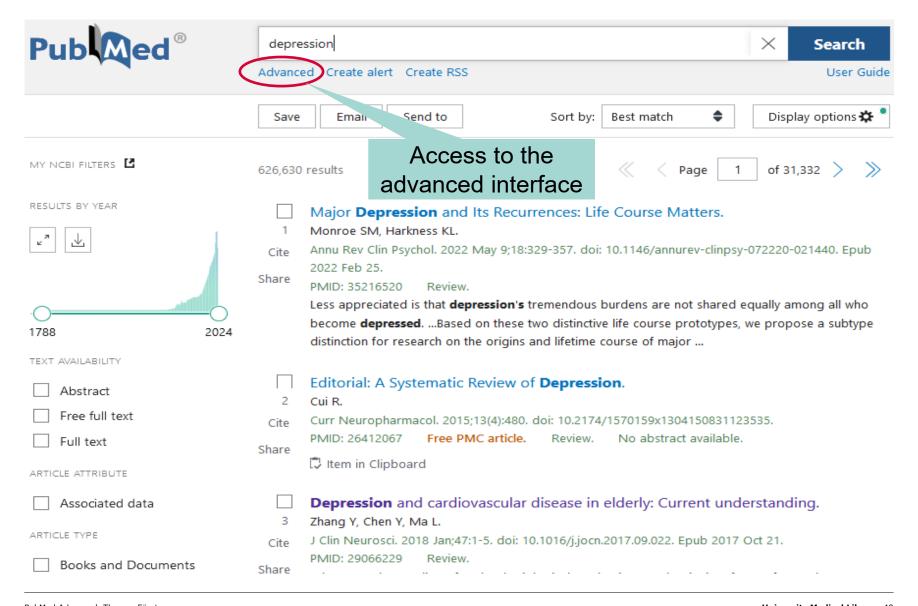
AGE NAVIGATION Title & authors Abstract Similar articles Cited by Publication types MeSH terms Related information LinkOut - more resources

PubMed Advanced, Thomas Fürst

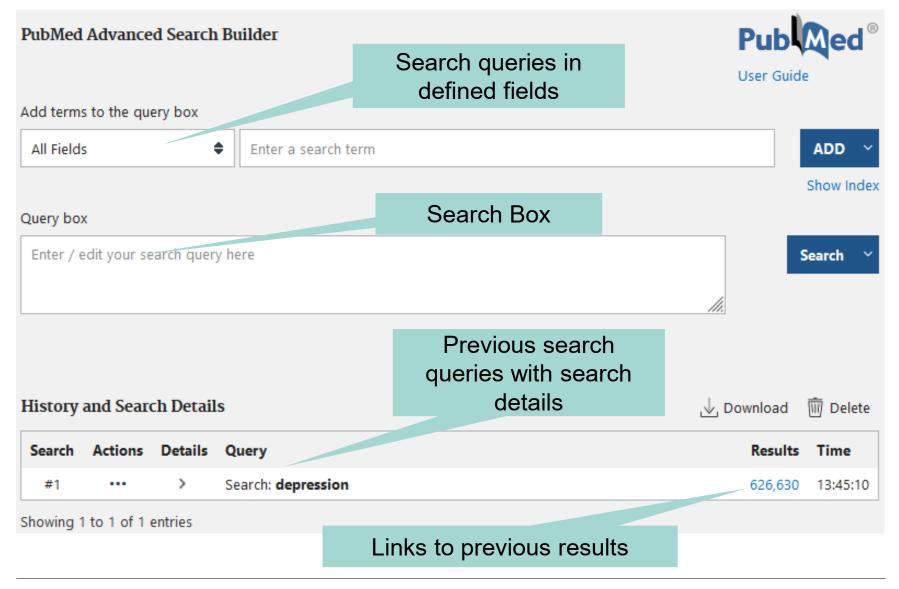
Presentation of the results



Access to the advanced interface



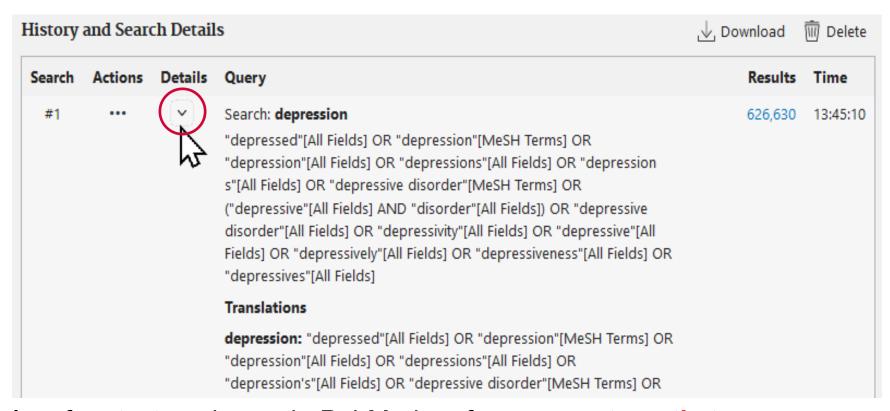
PubMed advanced interface



Search details on PubMed advanced

History	History and Search Details		ightharpoonup Download	m Delete	
Search	Actions	Details	Query	Results	Time
#1	•••	Ç, Z	Search: depression "depressed"[All Fields] OR "depression"[MeSH Terms] OR "depression"[All Fields] OR "depressions"[All Fields] OR "depression s"[All Fields] OR "depressive disorder"[MeSH Terms] OR ("depressive"[All Fields] AND "disorder"[All Fields]) OR "depressive disorder"[All Fields] OR "depressivity"[All Fields] OR "depressive"[All Fields] OR "depressively"[All Fields] OR "depressiveness"[All Fields] OR "depressives"[All Fields]	626,630	13:45:10
			Translations		
			depression: "depressed"[All Fields] OR "depression"[MeSH Terms] OR "depression"[All Fields] OR "depressions"[All Fields] OR "depressive disorder"[MeSH Terms] OR ("depressive"[All Fields] AND "disorder"[All Fields]) OR "depressive disorder"[All Fields] OR "depressive"[All Fields] OR "depressive"[All Fields] OR "depressive"[All Fields] OR "depressiveness"[All Fields] OR "depressiveness"[All Fields] OR "depressives"[All Fields]		
Showing 1	1 to 1 of 1	entries			

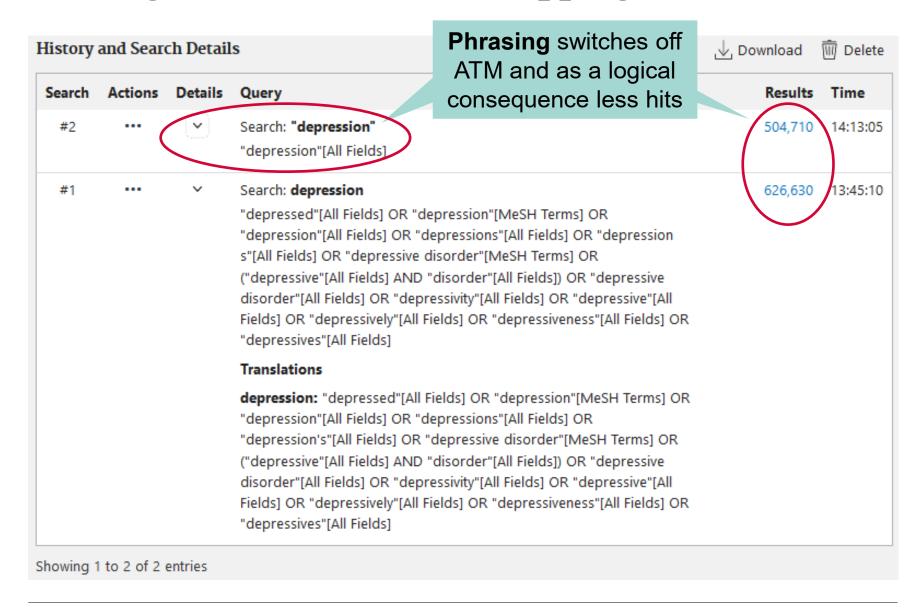
Understanding free textword searching



In a free textword search, PubMed performs an **automatic term mapping (ATM)**, i.e. a «translation»:

Suitable MeSH terms and word variants (plural forms, compound words, verb forms, adjectives, ...) are combined with the OR operator to form a search string.

Turning off automatic term mapping (ATM)



Turning off automatic term mapping (ATM)

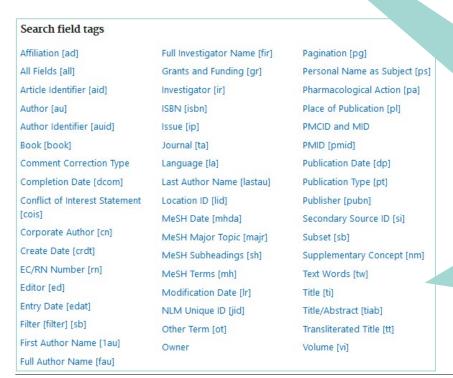
Truncation switches History and Search Details , ↓, Download M Delete off ATM and as a logical consequence Details Query Time Search Actions Results less hits. Of note, in Search: depression* 509.468 14:30:33 #2 PubMed, the asterisk "depression*"[All Fields] (*) can only be set at Search: depression #1 626,630 13:45:10 the end of a word. "depressed"[All Fields] OR "de "depression"[All Fields] OR "depressions"[All Fields] OR "depression s"[All Fields] OR "depressive disorder"[MeSH Terms] OR ("depressive"[All Fields] AND "disorder"[All Fields]) OR "depressive disorder"[All Fields] OR "depressivity"[All Fields] OR "depressive"[All Fields] OR "depressively"[All Fields] OR "depressiveness"[All Fields] OR "depressives"[All Fields] Translations depression: "depressed"[All Fields] OR "depression"[MeSH Terms] OR "depression"[All Fields] OR "depressions"[All Fields] OR "depression's"[All Fields] OR "depressive disorder"[MeSH Terms] OR ("depressive"[All Fields] AND "disorder"[All Fields]) OR "depressive disorder"[All Fields] OR "depressivity"[All Fields] OR "depressive"[All Fields] OR "depressively"[All Fields] OR "depressiveness"[All Fields] OR "depressives"[All Fields] Showing 1 to 2 of 2 entries

Turning off automatic term mapping (ATM)

History	and Sear	ch Detail	s	ightharpoons Download	m Delete
Search	Actions	Details	Query	Results	Time
#3		\varphi\)	Search: depression[tiab] "depression"[Title/Abstract]	435,731	14:21:35
#2	•••	v	Search: depression[Title/Abstract] "depression"[Title/Abstract]	435,731	14:20:56
#1	•••	~	Search: depression "depressed"[All Fields] OR "depression"[MeSH Tellor "depression"[All Fields] OR "depressions"[All Fields] Pepression	626,630	13:45:10
			s"[All Fields] OR "depressive disorder"[MeSH Terms] C ("depressive"[All Fields] AND "disorder"[All Fields]) OR "a disorder"[All Fields] OR "depressivity"[All Fields] OR "depres Fields] OR "depressively"[All Fields] OR "depressiveness"[All Fie "depressives"[All Fields]	switches of and as a consequent	off ATM logical
			Translations	less hits. C	
			depression: "depressed"[All Fields] OR "depression"[MeSH Terms] OR "depression"[All Fields] OR "depressions"[All Fields] OR "depression's"[All Fields] OR "depressive disorder"[MeSH Terms] OR ("depressive"[All Fields] AND "disorder"[All Fields]) OR "depressive disorder"[All Fields] OR "depressivity"[All Fields] OR "depressive"[All Fields] OR "depressively"[All Fields] OR "depressiveness"[All Fields] OR "depressives"[All Fields] OR "depressives"[All Fields]	there is a and a s version for same field leading to	a long short or the d code
Showing 1	1 to 3 of 3	entries		same re	

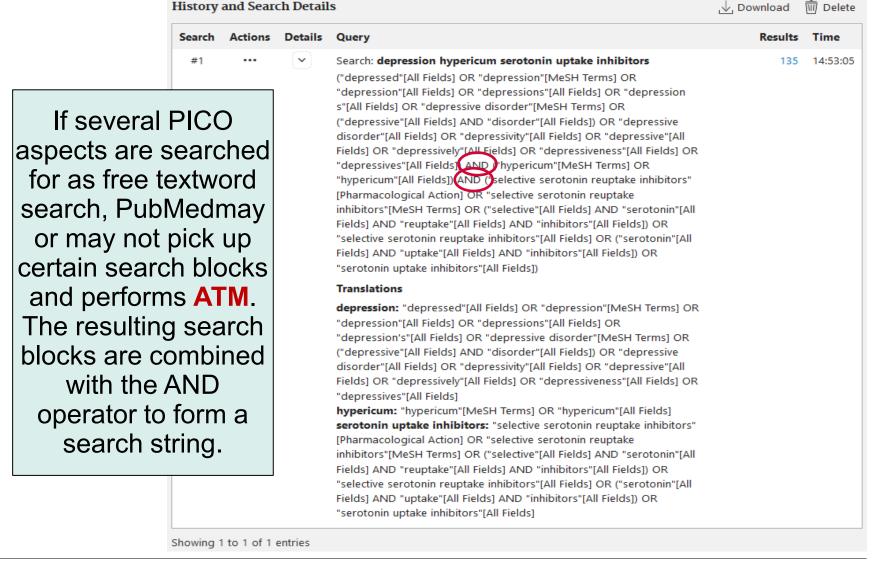
(Meta-data)Field Searching



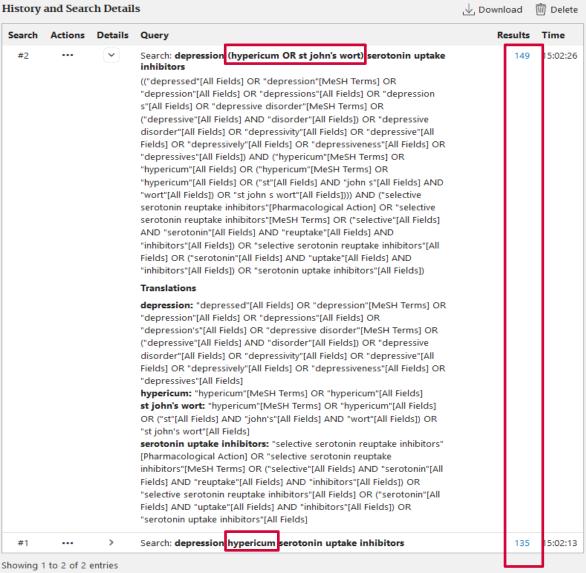


(Meta-data)Fields and their selection either via drop-down on advanced interface (=> "long" syntax) or via direct entry of syntax if known (=> can be either "long" or "short" syntax). For a list of all fields, the short search field tags and further information, see https://pubmed.ncbi.nlm.nih.g ov/help/#using-search-field-tags

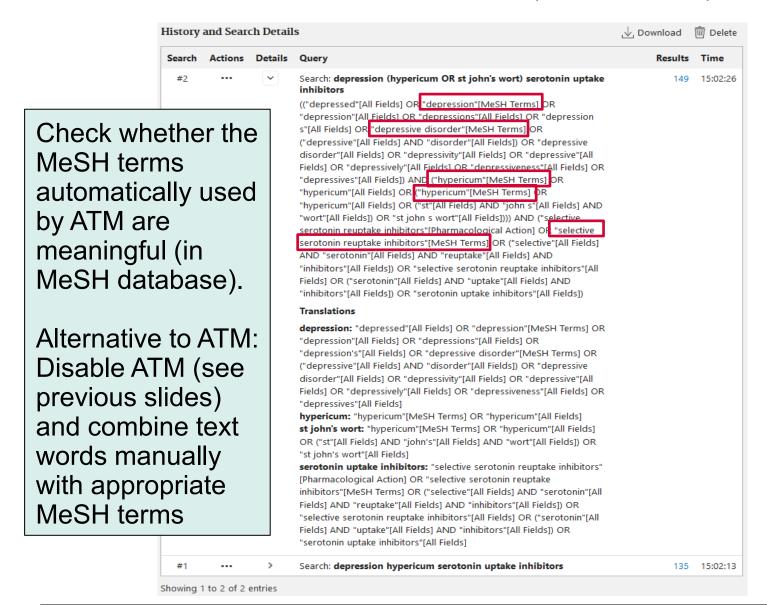
Understanding free textword searching: multiple concepts



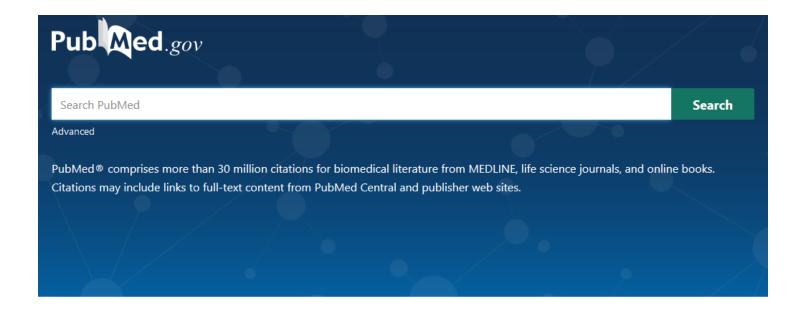
Inclusion of synonyms increases the number of hits



ATM searches also the MeSH (Meta-data)field



Access to the MeSH database





Learn

About PubMed FAQs & User Guide Finding Full Text



Find

Advanced Search Clinical Queries Single Citation Matcher



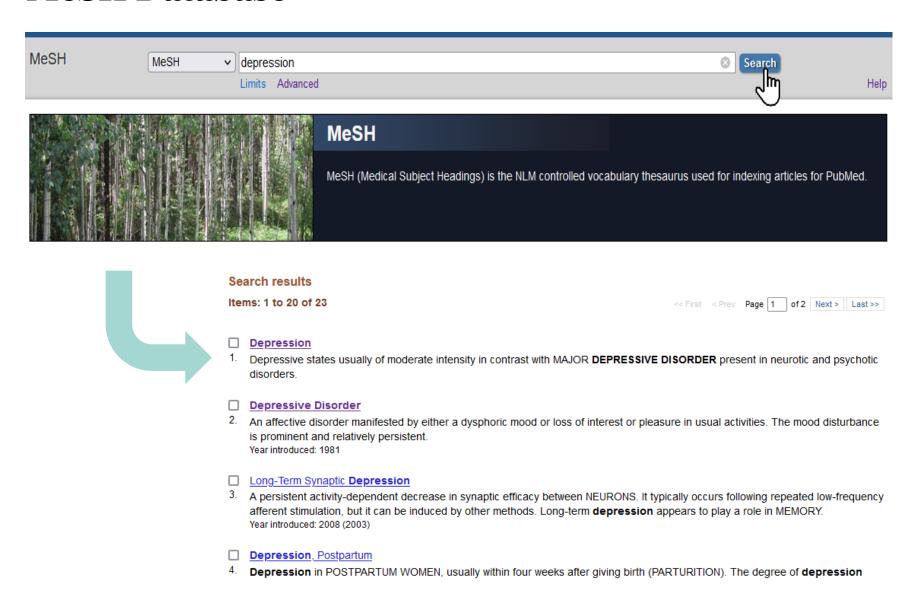
Download

E-utilities API FTP Batch Citation Matcher

Explore

MeSH Database

MeSH Database



MeSH Database

Definition of the MeSH term

De	pr	es	si	10

Depression			
Depressive states usually of moderate int	ensity in contrast with MAJOR DEPRES	SSIVE DISORDER present in neurotic and psychotic diso	rders.
PubMed search builder options			
<u>Subheadings:</u>		Subheadings =	
blood	epidemiology	□ specifications,	
cerebrospinal fluid	ethnology	e.g. «drug therapy»	
chemically induced	etiology	E.g. wardy therapy//	
classification	genetics	prevention and control	
complications	history	psychology	
☐ diagnosis	:unology	☐ rehabilitation	
☐ diagnostic imaging	☐ metabolism	surgery surgery	
diet therapy	☐ microbiology	□therapy MeSH Major	_
drug therapy	mortality	Topic: Subje	رt م
economics	nursing nursing	VIFOIOQV	
enzymology		heading is	
Restrict to MeSH Major Topic.		main aspect	
	are a second of the second of		

Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): F01.145.12 350, F01.470.282

MeSH Unique ID: D003863

Entry Terms:

- · Depressive Symptoms
- · Depressive Symptom
- · Symptom, Depressive
- Emotional Depression
- Depression, Emotional

Default: "Explosion", i.e. MeSH terms found below the respective term in the MeSH hierarchy ("narrower terms") automatically considered as well / Here, option to overrule the default and avoid "explosion"

MeSH Database

Entry Terms:

- · Depressive Symptoms
- · Depressive Symptom
- · Symptom, Depressive
- · Emotional Depression
- · Depression, Emotional

See Also:

Antidepressive Agents

All MeSH Categories

Psychiatry and Psychology Category

Behavior and Behavior Mechanisms

Behavior

Behavioral Symptoms

Depression

All MeSH Categories

Psychiatry and Psychology Category

Behavior and Behavior Mechanisms

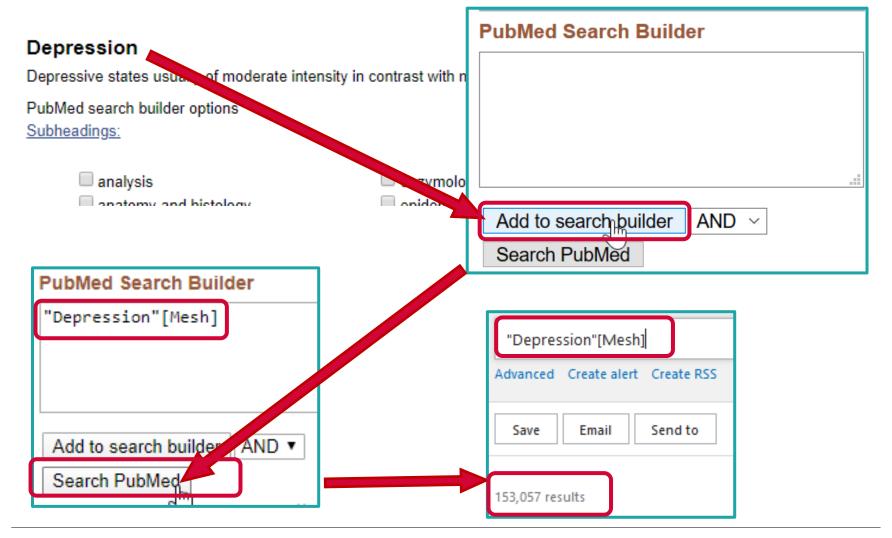
Emotions

Depression

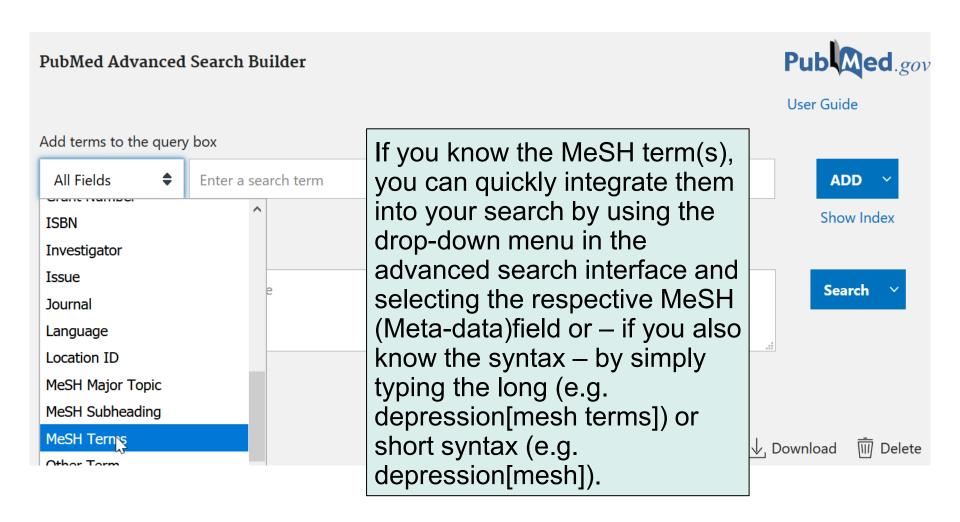
Entry Terms are alternative expressions/ synonyms, that are generally used interchangeably with the respective MeSH term; searches with these entry terms are mapped to the respective MeSH term (i.e. no difference between searches with respective MeSH term or Entry Terms, but it is always preferable to use the respective MeSH term and not an Entry Term – not least to prove your expertise!)

Hierarchical tree

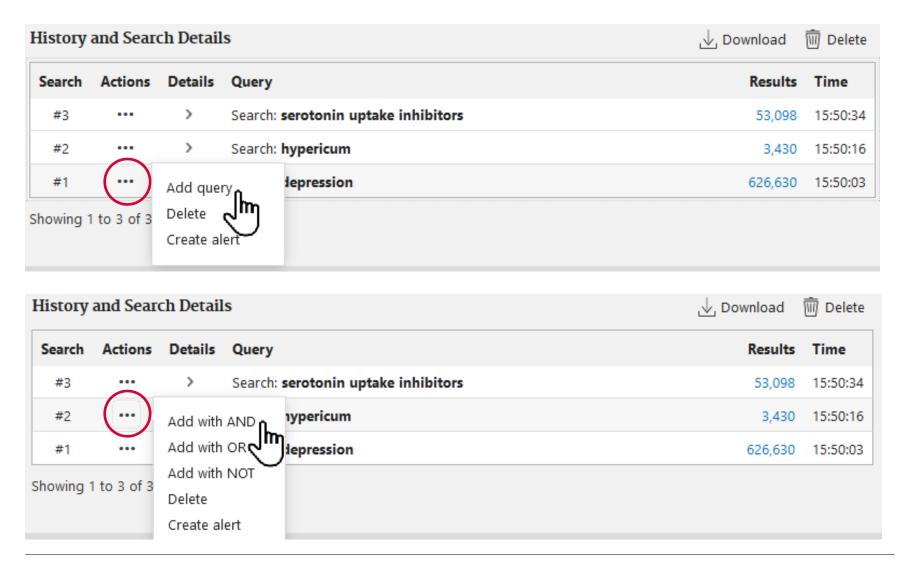
Search for MeSH terms: Search Builder From MeSH database back to PubMed



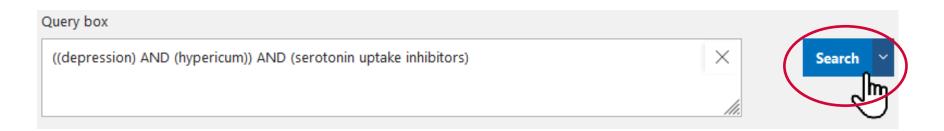
Search with known MeSH terms



Additional search details on PubMed Advanced – Combine separate searches and single line search

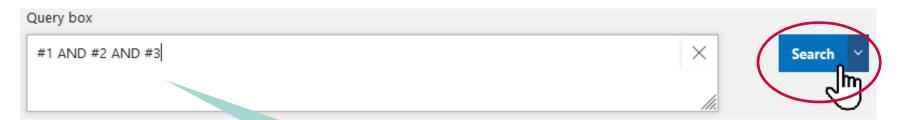


Additional search details on PubMed Advanced – Combine separate searches and single line search



ions De	etails	Query	Results	Time
••	>	Search: ((depression) AND (hypericum)) AND (serotonin uptake inhibitors)	135	15:56:29
••	>	Search: serotonin uptake inhibitors	53,098	15:50:34
••	>	Search: hypericum	3,430	15:50:16
	>	Search: depression	626,630	15:50:03
	•	• >	inhibitors) Search: serotonin uptake inhibitors Search: hypericum	inhibitors) Search: serotonin uptake inhibitors Search: hypericum 3,430

Additional search details on PubMed Advanced – Combine separate searches and single line search

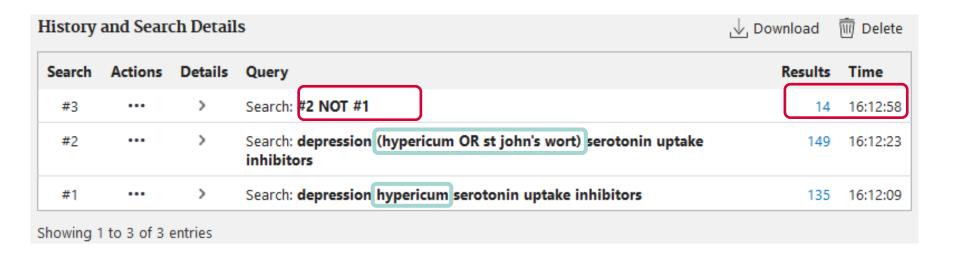


Instead of the <Actions> dropdowns, one can also directly type in the respective search numbers, but always REMEMBER: ATTENTION TO BRACKETS IF NEED BE!

History	ory and Search Details		ightharpoons Download	m Delete		
Search	Actions	Details	Query	Results	Time	
#5	•••	>	Search: #1 AND #2 AND #3	135	16:01:22	
#4		>	Search: ((depression) AND (hypericum)) AND (serotonin uptake inhibitors)	135	15:56:29	
#3	•••	>	Search: serotonin uptake inhibitors	53,098	15:50:34	
#2	•••	>	Search: hypericum	3,430	15:50:16	
#1	•••	>	Search: depression	626,630	15:50:03	
Showing 1	Showing 1 to 5 of 5 entries					

Use NOT to compare strategies

- With NOT you can compare two searches you have performed what is the difference between them?
- In the screenshot:
 - with #2 NOT #1 you can check which items you will miss if you use search #1 instead of search #2. The additional 14 articles were identified by the inclusion of <st john's wort> as synonym (and again, note: brackets!)



Find more MeSH terms: Inspiration from relevant articles known to you

Clinical Use of Hypericum Perforatum (St John's Wort) in Depression: A Meta-Analysis

Qin Xiang Ng ¹, N Affiliations + exp

Publication types

PMID: 28064110

- > Meta-Analysis
- > Review

Abstract

MeSH terms

Introduction: St J Medicine (TCM) p countries. Howeve analysis on St Joh available.

🖈 Antidepressive Agents / therapeutic use 🖈

- > Depression / drug therapy *
- > Humans
- ➤ Hypericum ★
- > Perylene / analogs & derivatives *

- **Methods:** Using t > Perylene / therapeutic use
- OR johanniskraut > Phloroglucinol / analogs & derivatives
- language restrictic > Phytotherapy ★

Depression, Anxie ➤ Plant Extracts / therapeutic use ★

- Knowledge Infrast > Serotonin Uptake Inhibitors / therapeutic use

1-May-2016. > Terpenes

Results: 27 clinica wort and SSRI. In **Substances** RR 0.983, 95% CI rate, and significa

- > Antidepressive Agents
- > Plant Extracts
- 64110/?from t... fs= > Serotonin Untake Inhibitors

d by Traditional Chinese epression in many European ist, and the last large metao updated meta-analysis

R hypericin OR hyperforin ary search (without Collaboration ne Cochra China National entary Medica between 1-Jan-1

omparing the use of St John ed comparable response (pooled 3, 95% CI 0.892-1.134, p<0.001) 7, 95% CI 0.478-0.697, p<0.001) 1-D scores (pooled SMD -0.068,

UniBasel S·F·X

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Abstract

Similar articles

Cited by

Publication types

MeSH terms

Find text word synonyms: Inspiration e.g. from MeSH database under «Entry Terms»

Hypericum

Genus of perennial plants in the family CLUSIACEAE (sometimes classified as Hypericaceae). Herbal and homeopathic preparations are used for depression, neuralgias, and a variety of other conditions. Hypericum contains flavonoids; GLYCOSIDES; mucilage, TANNINS; volatile oils (OILS, ESSENTIAL), hypericin and hyperforin.

Entry Terms:

- Hypericums
- Hypericum perforatum
- Hypericum perforatums
- perforatums, Hypericum
- St. Johns Wort
- Johns Wort, St.
- Wort, St. Johns
- St. Johnswort
- Johnswort, St.
- Saint Johns Wort
- · Johns Wort, Saint
- · Wort, Saint Johns
- Saint Johnswort
- Johnswort, Saint
- St. John's Wort
- John's Wort, St.
- St. John Wort
- · Wort, St. John's
- Saint John's Wort
- · John's Wort, Saint
- Saint John Wort
- Wort, Saint John's

Find further articles

Daily administration of low-dose aspirin has proved to be beneficial in preventing recurrent cardiovascular events. However, the role of aspirin for primary prevention in patients with no overt cardiovascular disease is more controversial. In fact, in lower risk patients, the modest benefit in reducing serious vascular events can be offset by the increased risk of bleeding, including intracranial and gastrointestinal hemorrhage. Diabetes mellitus has been associated with a substantially increased risk of both first and recurrent atherothrombotic events, which makes aspirin therapy of potential value in these subjects. Moving from general aspects of aspirin pharmacology and specific issues in diabetes mellitus, this article reviews the literature on the topic of aspirin for primary prevention in general, and in subjects with diabetes mellitus in particular, to culminate with arguments pro and con and a practical risk-based algorithm for aspirin initiation in daily practice.

Keywords: acetylsalicylic acid; aspirin; diabetes mellitus; primary prevention.

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Similar articles

Low-dose aspirin for primary prevention of cardiovascular events in patients with diabetes: Benefit or risk?

Leggio M, Bendini MG, Caldarone E, Lombardi M, Severi P, D'Emidio S, Stavri DC, Armeni M, Bravi V, Mazza A. Diabetes Metab. 2018 Jun;44(3):217-225. doi: 10.1016/j.diabet.2017.11.002. Epub 2017 Nov 14.

PMID: 29257747 Review.

Aspirin therapy and primary prevention of cardiovascular disease in diabetes mellitus.

Younis N, Williams S, Soran H.

Diabetes Obes Metab. 2009 Nov;11(11):997-1000. doi: 10.1111/j.1463-1326.2009.01068.x. Epub 2009 Jun 16.

PMID: 19531055 Review.

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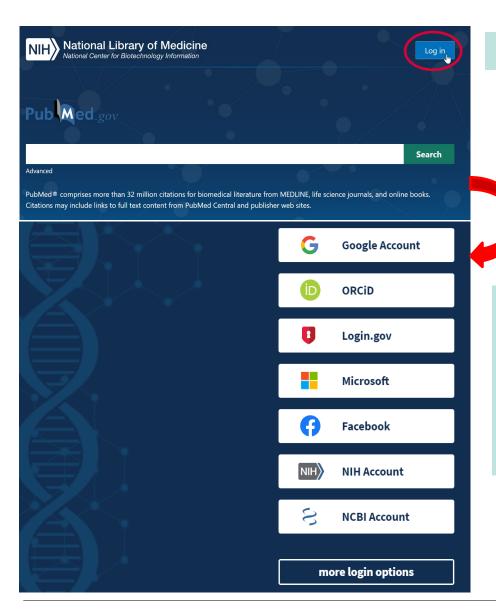
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MeSH terms

Substances

LinkOut - more resources

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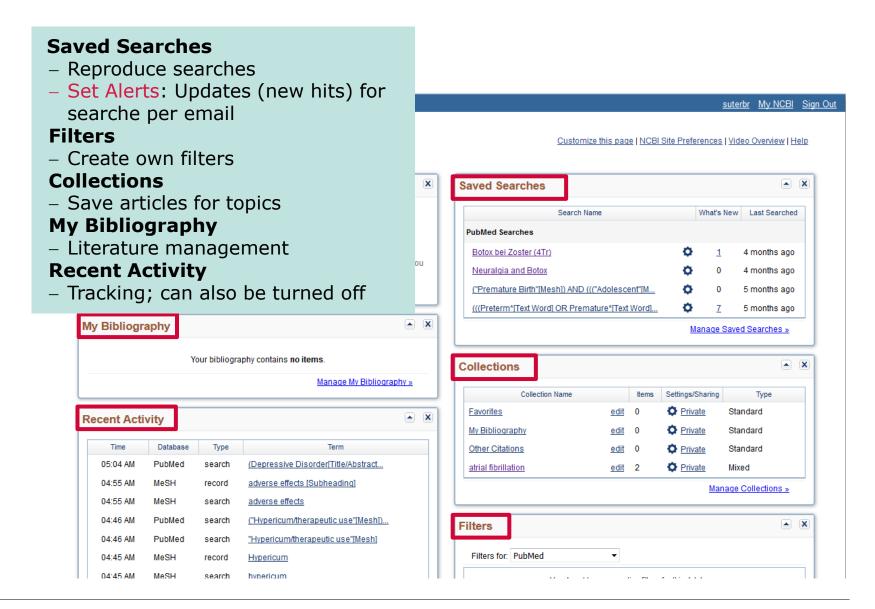
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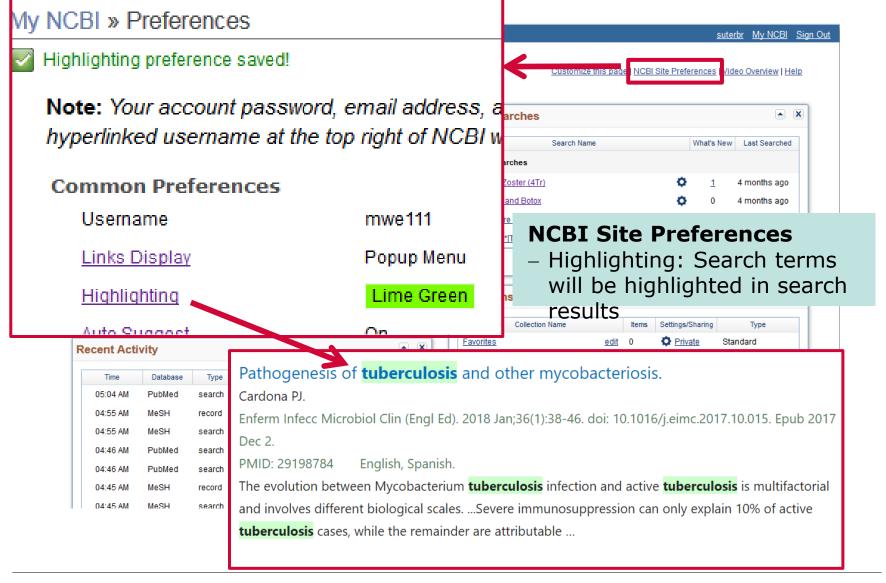
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> Diabetes Care, 41 (10), 2086-2095 Oct 2018

Long-term Relapse of Type 2 Diabetes After Rouxen-Y Gastric Bypass: Prediction and Clinical Relevance

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with 5-year follow-up. Using machine learning algorithms, we developed a scoring method, 5-year Advanced-Diabetes Remission (5y-Ad-DiaRem), predicting longer-term DR postsurgery by integrating

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Lover, Andrew A; Baird, J Kevin; Gosling, Roly; Price, Ric N ISSN: 0002-9637, 1476-1645; DOI: 10.4269/ajtmh.17-0869; PMID: 29761762

The American journal of tropical medicine and hygiene: official journal of the American Society of Tropical Medicine and Hygiene., 2018, Vol.99(1), p.17-23

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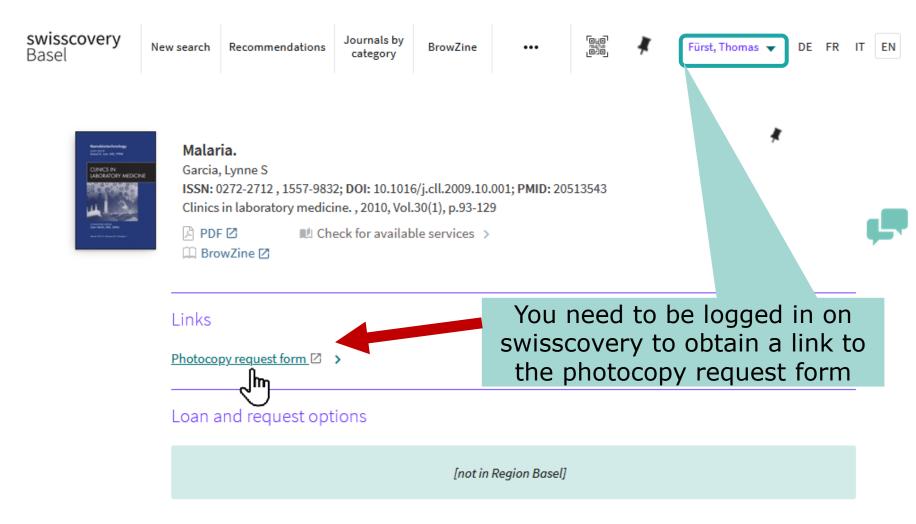
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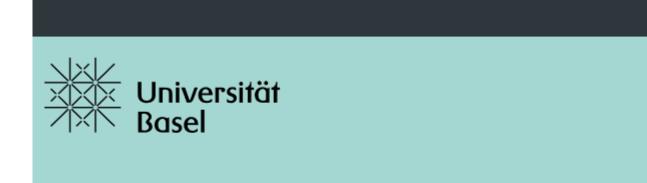
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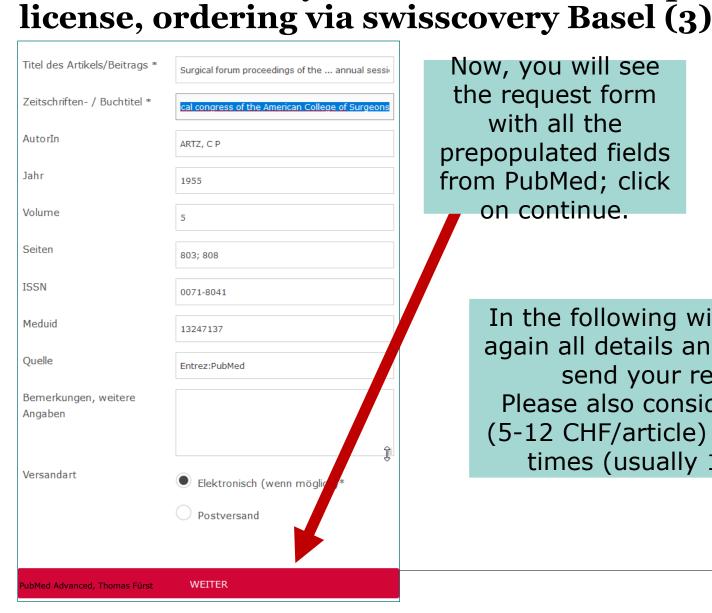
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